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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,491	()4/09/2004	Sergei Drizlikh	P05842 1426	
23990	7590	03/10/2005		EXAMINER	
DOCKET (CLERK		GURLEY, LYNNE ANN		
P.O. DRAW	ER 80088	9			
DALLAS, T	TX 75380		ART UNIT	PAPER NUMBER	
,				2812	1

DATE MAILED: 03/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)				
	057	10/821,491	DRIZLIKH ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Lynne A. Gurley	2812				
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address				
THE N - Extens after S - If the p - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. SIGN of time may be available under the provisions of 37 CFR 1.13 (SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on <u>26 November 2004</u> .						
2a)□	This action is FINAL . 2b)⊠ This	action is non-final.					
-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositio	on of Claims						
5)	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 13-20 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-12 are subject to restriction and/or election requirement.						
Application	on Papers						
9)□ 1	9) The specification is objected to by the Examiner.						
10)[] 7	I0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 							
* S	* See the attached detailed Office action for a list of the certified copies not received.						
			Type A Husley				
		PR	LYNNE A. GURLEY // RIMARY PATENT EXAMINER				
Attachment((s) of References Cited (PTO-892)	4) Interview Summary	TC 2800, AU 2812				
2) Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) U Notice of Informal Pa	atent Application (PTO-152)				

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DETAILED ACTION

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This Office Action is in response to the election with response, filed 11/26/04.

Currently, claims 1-20 are pending. Claims 13-20 have been withdrawn.

1. Applicant's election with traverse of claims 1-12 in the reply filed on 11/26/04 is

acknowledged. The traversal is on the ground(s) that the restriction requirement fails to provide

a factual basis indicating why the process as claimed can be used to make other and materially

different product. This is not found persuasive because the process as claimed can be used to

make other and materially different product, such as a product wherein a doped contact layer or,

a polysilicon layer, could replace the metal layer over the substrate. Additionally, the via need

not be through the semiconductor device, and the product could be made by a different process

such as a process wherein a selective etch or deposition could be used to pattern the dielectric

instead of using a mask and etch process.

The requirement is still deemed proper and is therefore made FINAL.

Further restriction between species is required:

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of

the claimed invention: Species I –embodiment preventing a contaminant within a layer of ARC

and Species II – embodiment with metal layer on substrate, applying nitrogen plasma to convert

Ti to a TiN layer.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

2. A telephone call was made to William A. Munck on 3/7/05 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lynne A. Gurley whose telephone number is 571-272-1670. The

examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne A. Gurley

Primary Patent Examiner

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TC 2800, Art Unit 2812

LAG

March 7, 2005